

(3 mi. west of Roseburg)

Douglas County

Hamilton Ranch

Fluornoy Valley

DIAMOND DRILL CONTRACTING COMPANY
Spokane, Washington

Log of Holes Drilled near Roseburg, Oregon, 1910

Hole #1

<u>FROM</u>	<u>TO</u>	<u>MATERIAL</u>
0 feet	1 feet	Soil
1	7	Sand and clay
7	157	Sandstone
157	180	Dark shale
180	251	Sandy shale
251	269	Sandstone
269	299	Hard conglomerate
299	300	Sandrock
300	305	Hard conglomerate
305	306	Sandrock
306	312	Hard conglomerate
312	313	Sandrock
313	316	Clay and shale
316	321	Sandrock
321	324	Shale
324	330	Soft clay
330	335	Soft shale
335	391	Shale
391	395	Sandstone
395	402	Conglomerate
402	402'8"	Coal 8"
402'8"	404	Shale
404	411	Sandy shale
411	412	Shale with coal traces
412	417	Sandy shale
417	420 426	Shale, trace coal
420	426'8"	Coal 6'8"
426	430	Shale
426'8"	447	Sandy shale
430	459	Sandstone
447	465'4"	Shale
459	466'10"	Coal 7'10"
465'4"	477	Shale
466'10"	520	Sandstone
477	524	Shale
520	536	Sandrock
524	550	Shale
536	552	Sandstone
550	564	Sandstone
552	602	Shaly sand
564	615	Sandstone
602	628	Shaly sand
615		

Hole #2

<u>FROM</u>	<u>TO</u>	<u>MATERIAL</u>
0 feet	2 feet	Soil
2	16 $\frac{1}{2}$	Brown clay
16 $\frac{1}{2}$	17	Blue clay
17	27	Shale sand
27	94	Sandstone
94	94 $\frac{1}{2}$	Fine clay
94 $\frac{1}{2}$	158 $\frac{1}{2}$	Sandstone
158 $\frac{1}{2}$	174	Shale
174	191	Sandstone
191	194	Conglomerate
194	206	Sandstone
206	229	Sandy shale
229	290	Shale
290	290 $\frac{1}{2}$	Coal 1/2'
311	311	Shale
312	312	Bone coal and shale
327 $\frac{1}{2}$	327 $\frac{1}{2}$	Shale
328 $\frac{1}{2}$	328 $\frac{1}{2}$	Dark shale
332	332	Shale
340	340	Sandstone
345	345	Sandy shale
346 $\frac{1}{2}$	346 $\frac{1}{2}$	Shale
348 $\frac{1}{2}$	348 $\frac{1}{2}$	Coal 2'
352 $\frac{1}{2}$	352 $\frac{1}{2}$	Shale
356 $\frac{1}{2}$	356 $\frac{1}{2}$	Coal 4'
359 $\frac{1}{2}$	359 $\frac{1}{2}$	Shale
375	375	Sandstone
377 $\frac{1}{2}$ 4"	377 $\frac{1}{2}$ 4"	Shale
379 $\frac{1}{2}$ 4"	379 $\frac{1}{2}$ 4"	Coal 2'
407	407	Sandy shale
412	412	Sandstone
434	434	Shale
497	497	Sandy shale
507	507	Shale
517	517	Coarse sandstone
527	527	Shale
666	666	Sandstone
832	832	Sandy shale
852	852	Shale
894	894	Sandy shale
950	950	Sandstone
954	954	Hard conglomerate
955	955	Conglomerate
960	960	Sandstone
976	976	Conglomerate
992	992	Sandstone
1002	1002	Sandy shale

Hole #2 (cont.)

<u>FROM</u>	<u>TO</u>	<u>MATERIAL</u>
1024	1024	Dark shale
1035	1035	Shale
1055½	1055½	Sandy shale
1057	1057	Shale, coal trace
1058	1058	Sandstone
	1059	Shale, coal trace
1059	1063	Shaly sand
1063	1075	Sandy shale
1075	1081	Sandstone
1081	1083	Sandy shale
1083	1088	Sandstone
1088	1091	Conglomerate
1091	1098	Sandstone
1098	1100	Sandy shale
1100	1109	Sandstone

Hole #3

0 feet	2 feet	
2	12	Soil
12	27	Clay
27	70	Shale
70	93	Sandy shale
93	133	Shale
133	238	Sandy shale
238	249½	Sandstone
249½	263	Sandstone
263	273	Sandy shale
273	283	Shaly sand
283	286	Sandy shale
286	305	<u>Bone coal</u> 3'
305	308	Sandstone
308	316	Shaly sand
316	319	Sandstone
319	324	Shaly sand
324	344	Clay
344	346	Shale
346	354	Sandstone
354	360½	Shaly sand
360½	424	Fine sandstone
424	425	Shale
425	445	Sandrock
445	450	Sandstone
450	452½	<u>Coal and bone coal</u> 5'
452½	455	Sandy shale
455	465	Sandstone
465	482½	Coarse sandstone
482½	485	Sandstone
		Black shale

Hole #3 (cont.)

<u>FROM</u>		<u>TO</u>		<u>MATERIAL</u>
485	feet	492	feet	Sandy shale
492		494		Sandstone
494		500		Sandy shale
500		529		Sandstone
529		537		Sandy shale
537		545		Shale

We certify that this is an accurate record of three holes drilled by us near Roseburg, Oregon, taken from reports furnished by our drill foreman.

Diamond Drill Contracting Co.
E. H. Knight, Secretary

Log or record of depth of hole #1 drilled on S. Hooper ranch, Flourney Valley, Douglas County, Oregon. Started March 12th, 1910, finished April 5, 1910. Work done by The Diamond Drill Contracting Company of Spokane, Washington.

Depth of change of formation		Nature of formation	Thickness of formation	
0	feet	Soil	1	foot
1	foot	Sandstone and clay	6	feet
7	feet	Sandstone and clay	150	"
157	"	Sandy shale	94	"
251	"	Sandstone	18	"
269	"	Conglomerate	30	"
299	"	Sand rock	1	"
300	"	Conglomerate	5	"
305	"	Sand rock	1	"
306	"	Conglomerate	6	"
312	"	Sand rock	9	"
321	"	Clay or shale	6	"
327	"	Shaly sandstone	63	"
390	"	Sandstone	4	"
394	"	Conglomerate	7	"
401	"	Coal vein	8	inches
401 ft.	8 inches	Shale	1 ft. 4	"
403	feet	Sandy shale	8	feet
411	"	Shale with coal traces	1	"
412	"	Sandy shale	5	"
417	"	Shale and coal (2 4" veins of coal)	3	"
420	"	Fossil conglomerate	1	"
421	"	Shale	5	"
426	"	Coal with gas	8	inches
426 ft.	8 inches	Shale "	9 ft. 4	"
436	feet	Sand rock "	23	feet
459	"	Shale "	6 ft. 4	inches
465 ft.	4 inches	Coal "	1 ft. 2	"
466 ft.	6 inches	Shale "	18 ft. 6	"
485	feet	Sandstone "	29	feet
514	"	Shale "	10	"
524	"	Sandstone "	10	"
534	"	Shale "	30	"
564	"	Sandy shale with fossils gas	10	"
574	"	Sandy shale "	25	"
599	"	Sandstone "	6	"
605	"	Sandy shale with fossils, heavy spasmodic gas	23	"

Log or record of depth of hole #2 drilled on Hamilton ranch, Flourney Valley, Douglas County, Oregon. Started April 13th, 1910, finished July 6th, 1910. Work done by The Diamond Drill Contracting Company, of Spokane, Washington.

Depth of change of formation		Nature of formation	Thickness of formation	
0	feet	Soil	2	feet
2	"	Brown clay	14 $\frac{1}{2}$	"
16 ft.	6 inches	Blue clay	6	inches
17	feet	Sandy shale	10	feet
27	"	Sandstone	68	"
94	"	Fire clay	6	inches
94 ft.	6 inches	Sandstone	64	feet
158 ft.	6 "	Shaly sand	25	"
183 $\frac{1}{2}$	feet	Shaly sand	4 ft.	6 inches
188	"	Coarse sand	4	feet
192	"	Conglomerate	3	"
195	"	Sandstone	23	"
218	"	Shale	18	"
236	"	Black shale	6	inches
236 ft.	6 inches	Shale	53 $\frac{1}{2}$	feet
290	feet	Coal	6	inches
290 ft.	6 inches	Shale	20 ft.	6 "
311	feet	Coal and shale	1	foot
312	"	Shale	15 ft.	6 inches
327 $\frac{1}{2}$	"	Dark shale	1	foot
328 $\frac{1}{2}$	"	Shale	3 $\frac{1}{2}$	feet
332	"	Sandstone	8	feet
340	"	Sandy shale	5	feet
Sulphur water struck flow of water at 30 feet steadily increasing to 50 feet heavy flow.				
345	"	Brown shale	1 $\frac{1}{2}$	"
346 $\frac{1}{2}$	"	Coal	2	" #1
348 $\frac{1}{2}$	"	Shale	4	"
352 $\frac{1}{2}$	"	Coal	4	" #2
356 $\frac{1}{2}$	"	Shale	3	"
359 $\frac{1}{2}$	"	Sandstone	5 $\frac{1}{2}$	"
375	"	Shale	2 ft.	4 inches
377 ft.	4 inches	Coal	2	feet #3
379 ft.	4 "	Sandy shale	12 ft.	8 inches
392	feet	Sandy shale	15	feet
407	"	Sandstone	7	"
414	"	Sandy shale	42 $\frac{1}{2}$	"
456 $\frac{1}{2}$	"	Sandstone	3 $\frac{1}{2}$	"
460	"	Sandy shale	48	"
508	"	Coarse sandstone	4	"
512	"	Fine sandstone	4 $\frac{1}{2}$	"
516 $\frac{1}{2}$	"	Shaly sand	44	"
560 $\frac{1}{2}$	"	Fine sand	167	"
727	"	Shaly sand	5	"
832	"	Sandy shale	30	"

Depth of change of formation		Nature of formation	Thickness of formation	
862	feet	Sandstone	90	feet
950	"	Conglomerate	5	"
955	"	Sandstone	5	"
960	"	Conglomerate	16	" gas
976	"	Sandstone	5	"
981	"	Sandy shale	54	"
1035	"	Shaly sand	22 $\frac{1}{2}$	"
1057 $\frac{1}{2}$	"	Shale with coal traces	1 $\frac{1}{2}$	"
1059	"	Shaly sand	4	"
1063	"	Sandy shale	12	"
1075	"	Sandstone	6 $\frac{1}{2}$	"
1081 $\frac{1}{2}$	"	Sandy shale	1 $\frac{1}{2}$	"
1083	"	Sandstone	5	"
1088	"	Conglomerates	3	"
1091	"	Sandstone	5	"
1096	"	Sandstone	2	"
1098	"	Sandy shale	2	"
1100	"	Sandstone	2	"
1109	"	Sandstone	9	"
(Complete depth of hole)				

Log or record of depth of hole #3 drilled on Hamilton ranch, Flourney Valley, Douglas County, Oregon. Started August 5th, 1910, finished August 19th, 1910. Work done by The Diamond Drill Contracting Company of Spokane, Washington.

Depth of change of formation		Nature of formation	Thickness of formation	
0	feet	Soil	2	feet
2	"	Clay	11	"
13	"	Shale	30	"
43	"	Sandy shale	54	"
97	"	Shaly sand	5	"
102	"	Sandstone	136	"
238	"	Shale	11 $\frac{1}{2}$	" coal traces
249 $\frac{1}{2}$	"	Sandy shale	13 $\frac{3}{4}$	"
263	"	Shaly sand	10	"
273	"	Sandy shale	10	"
283	"	Bony coal	3	"
286	"	Sandstone	12	"
298	"	Conglomerate	6	inches
298 $\frac{1}{2}$	"	Sandstone	17 $\frac{1}{2}$	feet
316	"	Shaly sand	3	"
319	"	Shale	25	"
344	"	Sandy shale	10	"
354	"	Fine sandstone	6 $\frac{1}{2}$	"
360 $\frac{1}{2}$	"	Shale	33 $\frac{3}{4}$	"
394	"	Dark shale	11	" coal traces
405	"	Shale	19 $\frac{1}{2}$	"
424 $\frac{1}{2}$	"	Sandstone	21	"
445 $\frac{3}{4}$	"	Bony coal	5	"
450 $\frac{3}{4}$	"	Sandy shale	2 $\frac{1}{2}$	"
453	"	Sandstone	29 $\frac{1}{4}$	"
482 $\frac{1}{4}$	"	Black shale	11 $\frac{1}{4}$	"
493 $\frac{1}{2}$	"	Sandstone	1 $\frac{1}{2}$	"
495	"	Sandy shale	5	"
500	"	Sandstone	31	"
531	"	Sandy shale	14	"
		(Complete depth of hole)		